

AMENDMENTS TO THE CLAIMS

Please amend Claims 1-26 as follows. All pending claims have been reproduced below.

1. (Currently Amended) A data processing system ~~comprising;~~
comprising:

a data accumulating means to accumulate virtual space data as a set of 3-dimensional data specifying shape,

a coordinate system setting means to set a virtual reference point and virtual coordinate axes in ~~said~~ the virtual space,

a detecting means to detect a relative position and a gradient of said coordinate system setting means against a reference position in a real space,

a position specifying means to specify virtual positions in ~~said~~ the virtual space in accordance with ~~said~~ the position data detected by said detecting means,

an area selecting means to select a desired area in ~~said~~ the virtual space in accordance with ~~said~~ the virtual positions specified by said position specifying means, and

a storing means to store an image of ~~said~~ the desired area selected by said selecting means.

2. (Currently Amended) The data processing system according to claim 1, wherein said detecting means ~~has~~ comprises a gyro-sensor.

3. (Currently Amended) The data processing system according to claim 1, wherein said detecting means ~~has~~ comprises an optical gyro-sensor and a plurality of velocity sensors.

4. (Currently Amended) The data processing system according to claim 1, wherein said detecting means ~~has~~, comprises:

a laser light source,
a plurality of galvano-mirrors to distribute the laser light,
a plurality of prisms to reflect the distributed laser light,
a photo-detector to receive the ~~reflected~~ light reflected by ~~the~~ said plurality of
prisms, and
angle detectors to detect ~~the~~ respective moved angles of ~~the~~ said plurality of
galvano-mirrors.

5. (Currently Amended) The data processing system according to ~~claim 1~~
claim 1, wherein said 3-dimensional data further includes data on color, dimension, and texture.

6. (Currently Amended) A printer ~~comprising~~, comprising:
a data accumulating means to accumulate virtual space data as a set of 3-
dimensional data specifying shape,
a coordinate system setting means to set a virtual reference point and virtual
coordinate axes in ~~said the~~ virtual space,
a detecting means to detect a relative position and a gradient of said coordinate
system setting means against a reference position in a real space, and
a printing means to print a desired area in ~~said the~~ virtual space specified by
~~said the~~ position data detected by said detecting means specified by ~~said the~~ virtual reference
point and coordinate axes.

7. (Currently Amended) The printer according to claim 6, wherein said

detecting means ~~has~~ comprises a gyro-sensor.

8. (Currently Amended) The printer according to claim 6, wherein said detecting means ~~has~~ comprises an optical gyro-sensor and a plurality of velocity sensors.

9. (Currently Amended) The printer according to claim 6, wherein said detecting means ~~has~~; comprises:

a laser light source,

a plurality of galvano-mirrors to distribute the laser light,

a plurality of prisms to reflect the distributed laser light,

a photo-detector to receive the ~~reflected~~ light reflected by ~~the~~ said plurality of prisms, and

angle detectors to detect ~~the~~ respective moved angles of ~~the~~ said plurality of galvano-mirrors.

10. (Currently Amended) The printer according to claim 6, wherein said 3-dimensional data further includes data on color, dimension, and texture.

11. (Currently Amended) An image recording system ~~comprising~~; comprising:

a data accumulating means to accumulate virtual space data as a set of 3-dimensional data specifying shape,

a coordinate system setting means to set a virtual reference point and virtual coordinate axes in ~~said~~ the virtual space,

a detecting means to detect a relative position and a gradient of said coordinate system setting means against a reference position in a real space,

a position specifying means to specify virtual positions in ~~said~~ the virtual space in accordance with ~~said~~ the position data detected by said detecting means,

an area selecting means to select a desired area in ~~said~~ the virtual space in accordance with ~~said~~ the virtual positions specified by said position specifying means, and

a printing means to print ~~said~~ the selected desired area in ~~said~~ the virtual space.

12. (Currently Amended) The image recording system according to claim 11, wherein a ~~gyro-censor~~ gyro-sensor is used in said detecting means.

13. (Currently Amended) The image recording system according to claim 11, wherein an optical gyro-sensor and a plurality of velocity sensors are used in said detecting means.

14. (Currently Amended) The image recording system according to claim ~~11~~ wherein, 11, wherein said detecting means comprises:

a laser light source,

a plurality of galvano-mirrors to distribute the laser light,

a plurality of prisms to reflect the distributed laser light,

a photo-detector to receive the ~~reflected~~ light reflected by ~~the~~ said plurality of prisms, and

angle detectors to detect ~~the~~ respective moved angles of ~~the~~ said plurality of galvano-mirrors ~~are used in said detecting means.~~

15. (Currently Amended) The image recording system according to ~~claim 11~~ claim 11, wherein ~~said the~~ 3-dimensional data further includes data on color, dimension, and texture.

16. (Currently Amended) An image recording method comprising steps ~~of~~,
of:

accumulating virtual space data as a set of 3-dimensional data specifying
shape,

setting a coordinate system by setting a virtual reference point and virtual
coordinate axes in ~~said the~~ virtual space,

detecting a relative position and a gradient of the coordinate system against a
reference position in a real space,

specifying virtual positions in ~~said the~~ virtual space in accordance with ~~said the~~
position data detected ~~by in~~ said detecting step,

selecting a desired area in ~~said the~~ virtual space in accordance with ~~said the~~
virtual positions specified ~~by in~~ said position specifying step, and

printing ~~said the~~ selected desired area in ~~said the~~ virtual space.

17. (Currently Amended) The image recording method according to claim
16, wherein a gyro-sensor is used ~~at in~~ said detecting step.

18. (Currently Amended) The image recording method according to claim
16, wherein said detecting step is performed using an optical gyro-sensor and a plurality of
velocity sensors ~~are used at said detecting step~~.

19. (Currently Amended) The image recording method according to claim ~~16 wherein;~~ 16, wherein said detecting step is performed using:

a laser light source,
a plurality of galvano-mirrors to distribute the laser light,
a plurality of prisms to reflect the distributed laser light,
a photo-detector to receive the ~~reflected~~ light reflected by the plurality of
prisms, and
angle detectors to detect ~~the~~ respective moved angles of the plurality of
galvano-mirrors ~~are used at said detecting step.~~

20. (Currently Amended) The image recording method according to ~~claim 16~~ claim 16, wherein ~~said the~~ 3-dimensional data further includes data on color, dimension, and texture.

21. (Currently Amended) A data processing system ~~comprising;~~
comprising:
a data accumulating means to accumulate virtual space data as a set of 3-dimensional data specifying shape,
a coordinate system setting means to set a virtual reference point and virtual coordinate axes in ~~said the~~ virtual space,
a virtual position detecting means to detect a relative position and a gradient of
the coordinate system setting means against ~~said the~~ virtual reference point,
a moving means to move in ~~said the~~ virtual space,

an area selecting means to select a desired area in ~~said the~~ virtual space in accordance with changed values caused by ~~said the~~ moving action of said moving means detected by said virtual position detecting means, and

a storing means to store an image of ~~said the~~ desired area selected by said area selecting means.: means.

22. (Currently Amended) The data processing system according to claim 21, wherein said moving means ~~has~~; comprises:

a plurality of rollers,

a counting member to count a rotated amount of said plurality of rollers,

a controlling member to control a rotating velocity of said plurality of rollers,

a plurality of supporting members formed monolithically with said plurality of rollers to support a heavy load,

a measuring member to measure ~~said the~~ load to ~~the~~ said plurality of supporting members, and

a space adjuster to adjust a space between said plurality of rollers and said plurality of supporting members in accordance with ~~said the~~ measured load value measured by said measuring member.

23. (Currently Amended) The data processing system according to claim ~~21~~ 22, wherein said ~~virtual space~~ moving means ~~has~~ comprises a second measuring member to measure ~~said the~~ space between said plurality of rollers and said plurality of supporting members.

24. (Currently Amended) The data processing system according to claim 21, wherein said moving means ~~also functions as a detecting means to detect~~ detects a position in ~~said~~ the virtual space.

25. (Currently Amended) The data processing system according to claim 21, wherein said data processing system ~~has~~ comprises a plurality of moving means in ~~said~~ the virtual space.

26. (Currently Amended) The data processing system according to ~~claim 21~~ claim 21, wherein ~~said~~ the 3-dimensional data further includes data on color, dimension, and texture.